

# CONVOY SURVIVABILITY

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Leveraging Doctrine,  
Training and Technology to  
Save Lives

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US Army Transportation Center

# Attacks near Tikrit leave one U.S. soldier dead

Monday, October 29, 2003

Posted: 3:41 AM EDT (0741 GMT)

**BAGHDAD, Iraq (CNN) --** Four U.S. soldiers were killed and six were wounded in three separate incidents on Friday, military officials said Saturday.

**CAMP DOHA, Iraq (CNN) --** WAS

Two attacks on soldiers Monday have left two dead and others wounded.

**U.S. Soldier Killed In Convoy Attack, 4 Others Hurt**

POSTED: 7:11 a.m. EDT August 29, 2003

**BAQOUBA, Iraq --** A U.S. soldier was killed in an attack Friday morning on a convoy in Iraq. The military said four soldiers were hurt and one will need to have a leg amputated. Attackers fired three rocket-propelled grenades at the supply convoy on a main road 40 miles northeast of Baghdad.

**KANDAHAR AIR BASE, Afghanistan (CNN) --** U.S. military officials said Saturday that three U.S. soldiers were killed and others wounded in an attack on a convoy.

**Three US troops killed in convoy attack**

3.27PM, 31 Jan 2004

**KIRKUK, IRAQ -** Three American soldiers have been killed in an attack on a US Army convoy traveling between the Iraqi towns of Tikrit and Kirkuk. A US Army spokesman said he had no further details on

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# Ongoing CLFX Initiatives





“Never mind the answers just yet.

First, what are the questions?”

LTG Omar Bradley, WWII

- What is the threat and who are at risk?
- What has the field done to overcome the threat?
- What skills are required of new soldiers and to what standard?
- What impact can technologies make on the threat and the commander's ability to mitigate risk?
- How do we integrate doctrine, training and technologies?

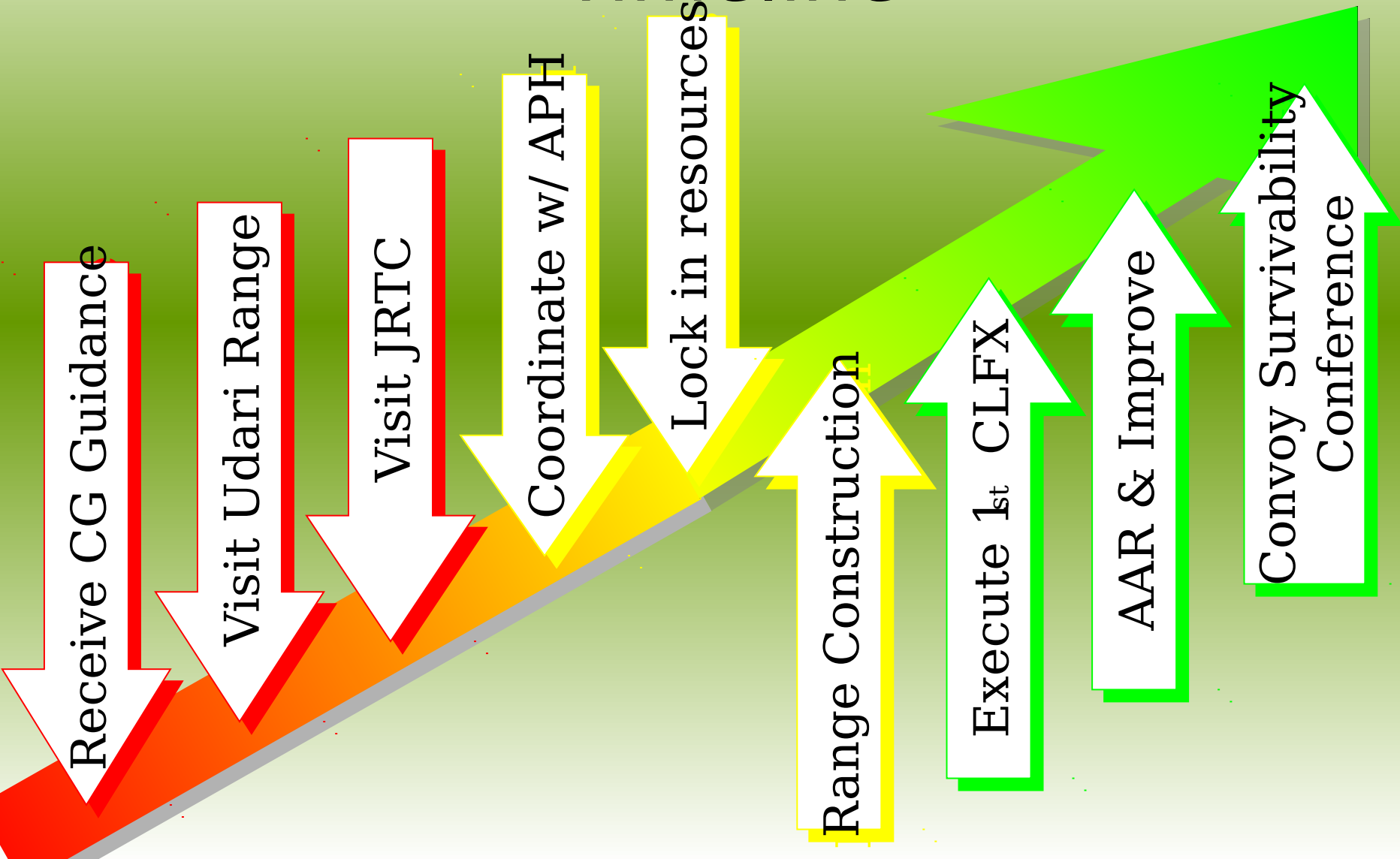
# What we want to do...

- Develop and conduct a safe & realistic live fire for Transportation School students incorporating key convoy defense tasks, and technologies.
- As the *US Army proponent for Convoy Operations and Survivability*, produce an exportable Training Support Package to all schools and units to plan and execute standardized, modular Convoy Live Fire Exercises.
- Review and update, as required, current doctrinal publications to reflect most current Convoy Survivability lessons learned.

# What we don't want to do...

- Slow down the great work being done by commands already executing training.
- Interfere with the rapid acquisition and equipping of units with latest technologies.
- Forget the inherent risk of the LFX.

# CLFX Developmental Timeline

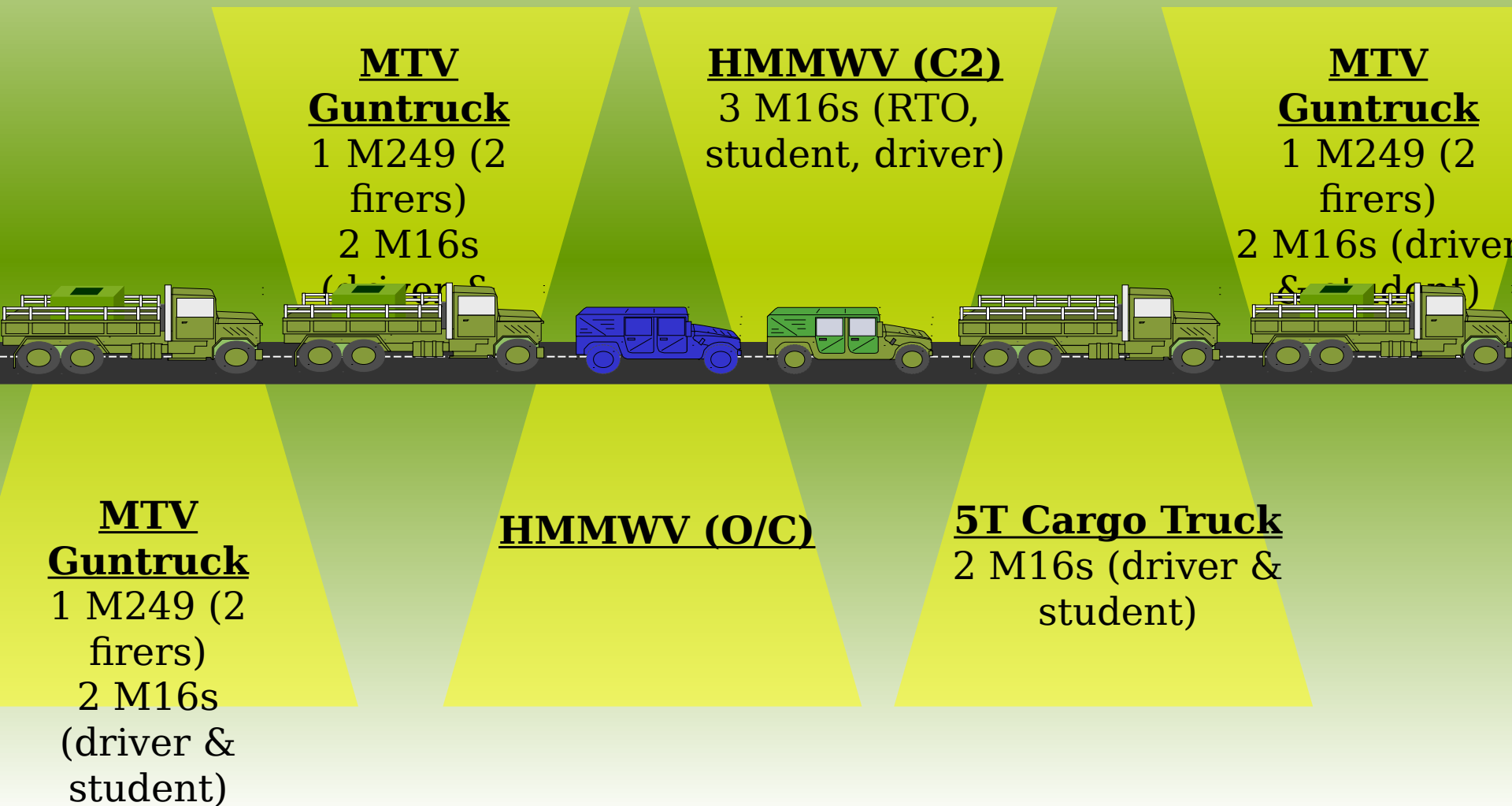




# Live Fire Principles

- Sequential and progressive
  - Crawl (classroom, PE, dry runs, AARs)
  - Walk (dry run, blank fire, AARs)
  - Run (Live Fire, AARs)
- Realism with advanced battlefield effects & targetry
- Safety
- Unit led, but O/C controlled
- Admin restrictions transparent to the platoon
- Flexible to unit structure, terrain & resources

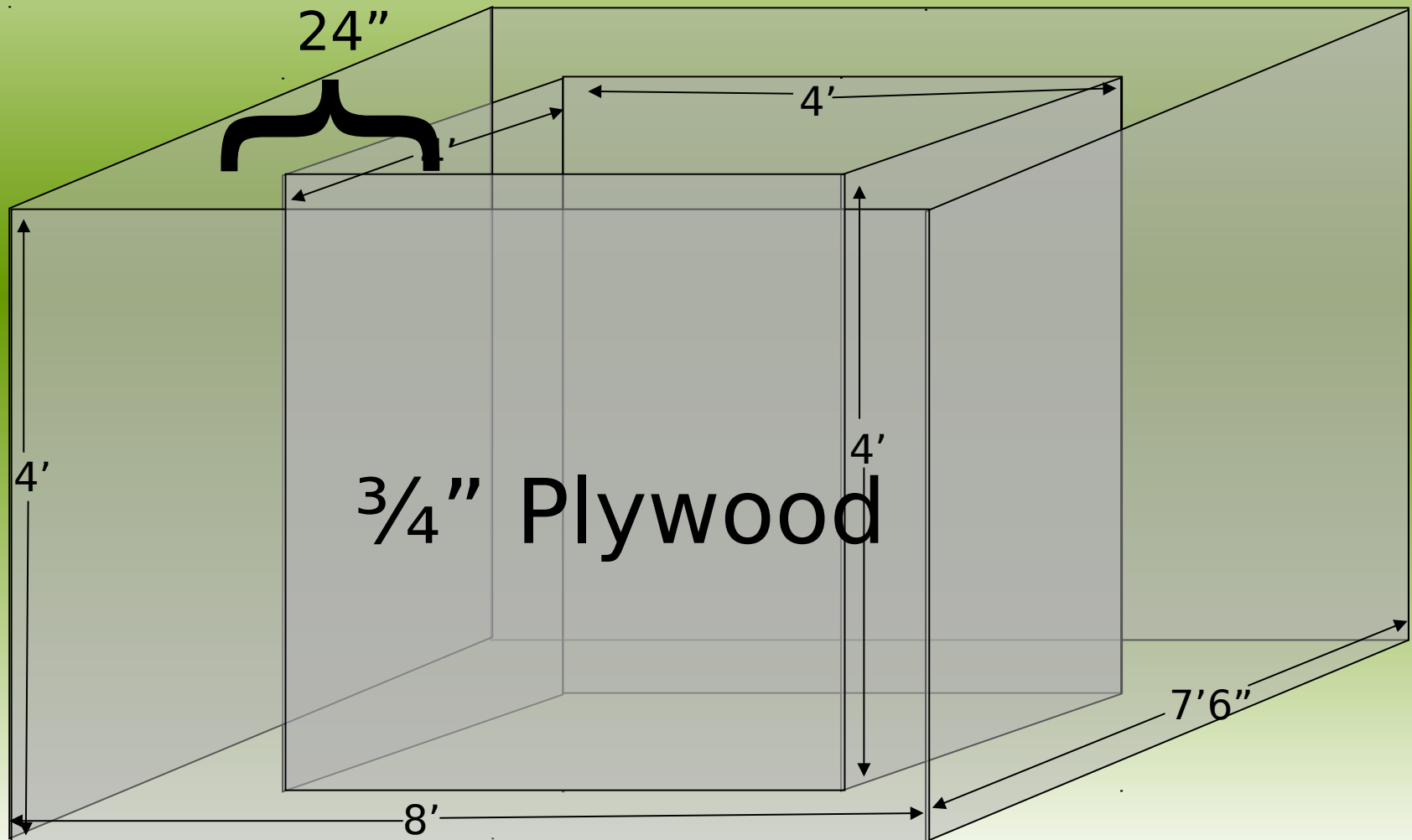
# Platoon Task Organization



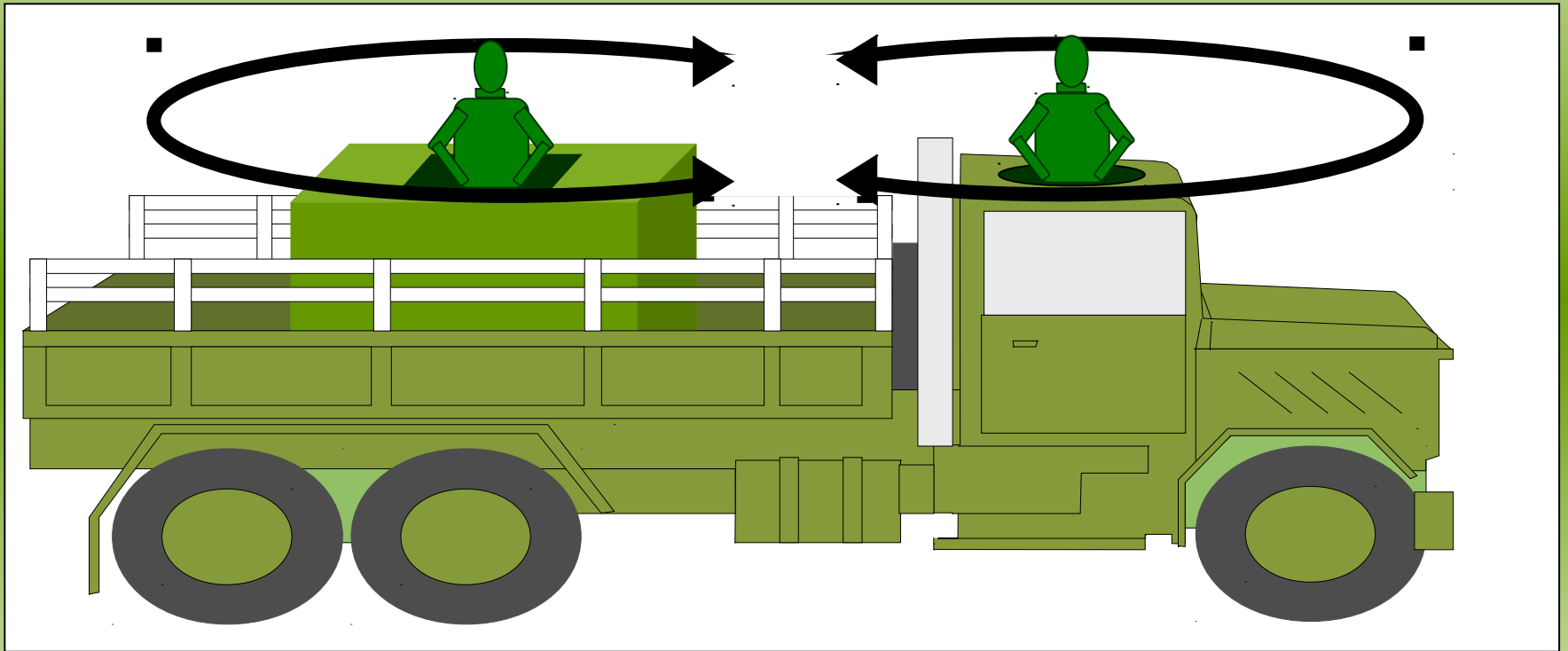
# Gun Trucks

- Gun mounts fitted on 3 MTVs
- Capable of mounting a  $\geq$  M249 SAW
- Options being considered
  - M66 Ring Mount
  - M6 Machine Gun Pedestal Mount
  - Organic Weapon Bipod w/ Gunbox
- Vehicle hardening
  - Sandbags
  - Gunbox(s)
  - Formal Hardening (ballistic armor, blankets, etc)

# Gun Box Design



# The Guntruck



Safety...Safety...Safety!

# Integrated CLFX

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1 <sup>st</sup> Plt	Convoy to FTX site	Qual Range	LFX	STX	STX	STX	Convoy to home station
2 <sup>nd</sup> Plt			STX	LFX			
3 <sup>rd</sup> Plt				STX	LFX		
4 <sup>th</sup> Plt					STX	LFX	
STX Team	STX set up and rehearsal		O/C STX Lanes				Clear ranges & redeploy
LFX Team	CLFX range set up	O/C MRE	O/C LFX Lanes				



# Scenarios

- Multiple engagements along a convoy route.
  - React to Ambush, Blocked
  - React to Ambush, Un-blocked
  - React to IED
- Mission, Terrain and Resource Dependent

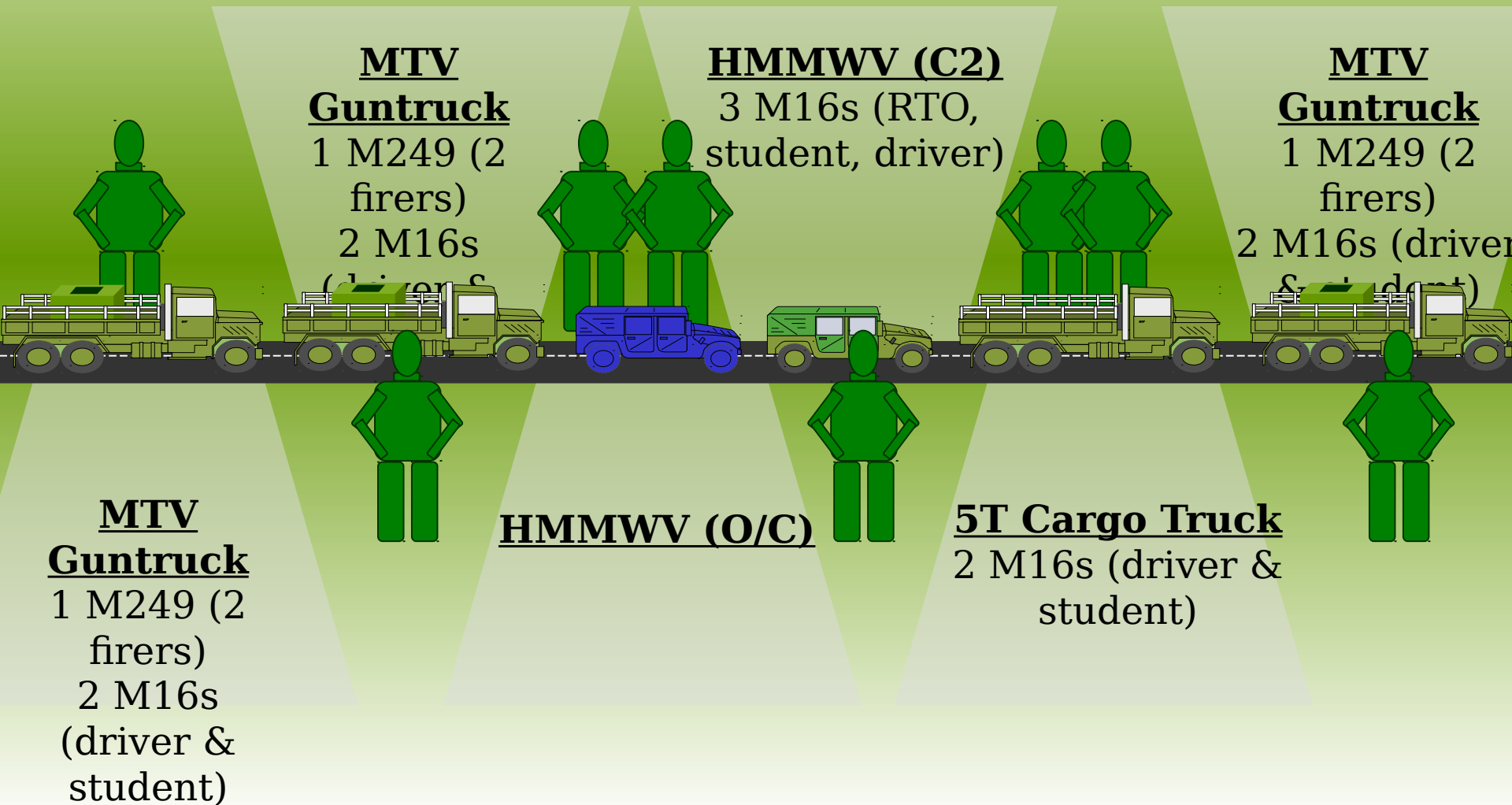
# O/C Requirements

## “MENTOR-TEACH-DIRECT”

- 7 SFCs or above with one year retainability.
- Knows each scenario.
- Knows target emplacements on range.
- Conducts route recon with SDZs in hand to identify firing lanes.
- Qualified on and masters each weapon system used.
- Masters range operations and safety requirements.

NOTE: The O/C OIC validates requirements before O/Cs conduct the Live Fire Exercise

# O/C Coverage



# Live Fire Team

## (Personnel)

1	CP OIC (LT/CPT)
1	CP NCOIC (SSG)
7	O/Cs (SFC)
1	Ammo Handler (55B20/30)
2	Ammo Handler (55B10)
2	Medics w /Aid Bags
6	5T Cargo Operators
4	M998 Operators
1	CP RTO (31U10)

TOTALS	
OFFICER	3
NCO	12
ENLISTED	13
Total	28

# Live Fire Team

## (Equipment)

6	5T/MTV Cargo Trucks
4	M998 HMMWV
1	FLA
2	GP Medium tents
1	OE 254
12	Hand held radios
12	SINGGARS

# Range Support Requirements

- 5+ kms of contiguous roads
- 20+ targets with battlefield effects
  - Pop-up/Knock-down targets
  - Personnel & vehicle silhouettes
  - Stationary & moving
- Effects
  - Pyrotechnics
  - Pneumatic weaponry
  - Loudspeakers
- “Unforecasted” CL V



# Class V

- 50 students / class
- 10 classes / year
- Live Fire Ammunition requirement for one year:
  - 101,840 M16 5.56 Ball
  - 150,240 M249 5.56 Link
  - 114,000 M16 5.56 Blank
  - 180,000 M249 5.56 Link Blank
  - Pyrotechnics, as required

# Risk Management

- **HIGH** Risk Training Event
  - ADHOC Unit (OBC class)
  - First Live Fire for most (if not all) O/Cs
  - Inexperienced firers
- Critical Safety Controls
  - Target placement, presentation & elimination
  - Unit proficiency
  - O/C competency
  - Crawl, walk, run methodology
- After added controls, residual risk is still **HIGH**

# Now What?

- Training Support Package
  - Draft o/a 1 MAY 04
  - Deliverable o/a 1 JUL 04
- FM 55-30-XX that incorporates guntruck construction and employment, convoy reaction drills, technology employment, convoy LFX, etc.
  - Draft o/a 1 OCT 04
  - Deliverable o/a 1 JAN 05
- Convoy Survivability Conference
  - 24-25 MAR 04

# Convoy Survivability Workshop

24-25 MAR 03

Fort Eustis, VA

Registration info:

<http://www.jsurv.jte.osd.mil/symposium.htm>

or

Ms Tonya Easley

(757) 638-6032

# Convoy Survivability Workshop

## Fort Eustis, VA

	24 MAR 04			25 MAR 04		
0800	Opening Remarks			Doctrine & Training Group #1	Horizontal Tech Group #2	Vertical Tech Group #3
0900	Threat, JSURV Briefs					
1000	TF-IEF, CLFX Briefs					
1100	Technology Overviews					
1200	Doctrine & Training Group #1	Horizontal Tech Group #2	Vertical Tech Group #3	Group Backbriefs		
1300						
1400						
1500						
1600	TWV OIF Maintenance			Q&A		
1700	No-Host Social					

# QUESTIONS